Demon picks P>1

you pick of P (gd(i, ii)=1)

Demon: Wrayz resol je jeppp

You pick $\dot{c} = \frac{p-1}{j} + 1$ 0 $\lambda_{+} \dot{i} \dot{j}_{+} + 1 + p - p' \rho$

ما وَارد اون ما برار معدر ما در ما مرزمان عاموم وس در نه نظم اسم

b) Lz = { (ab) ak 1 n7k, k70}

Demon picks P7,1

you pick (ah) PH P

Wrayz layl=pxp and y+c

7. (ab) 3. (ab) 2. (ab) P-P+1 AP

take iso -> wr 22 = (ab) P+1-j ap

(371) P+1-9 XP

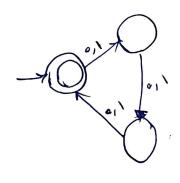
so La is not a regular languege

() L3= {w| we{a,b,(} & and na(w) {nb(w) {nc(w)}} Demon picks P),1 You picks cp pape Demon wanyz & nich y= c) zil cP-P'b Papa You pick is. - w's c'cp-p'bpap

P', l,j => l+p-p'< p ×

You win the game so Lz 5 is not a regular languege

a) we can write DFA



if $|w| \stackrel{?}{=} o$, we can divide each letter into two groups and make a group trice larger than other also we can't use less than 3 states Br DFA

b) Demon pick p), 1 you pick app P+1 Demon wanyz real year 2: PP'PP+1 you pick i. so — we know, al+p-p'ppcp+1 & L because l+p-p'=l+p-l-j=p-j + p

Demon picks p?/

you picks ws a Prime prime > P

Demon picks ws ayz as a you zo a P-P

Jau pick vs Prime + 1

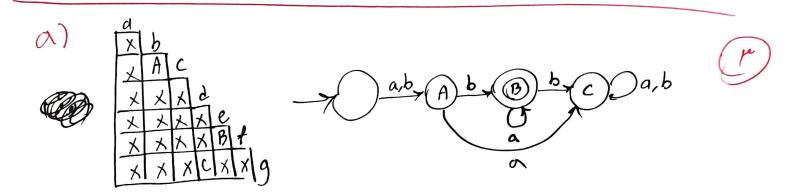
- w. a l+ jv+P-P' = a Prime + (v-v)j

- Prime + (v-v)j = 2 x prime - (v-v) = prime

if we set vs Prime + 1

if we set vs Prime + 1

we win so Ly isn't regular

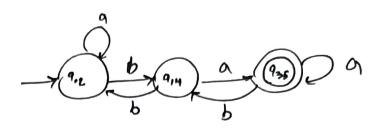


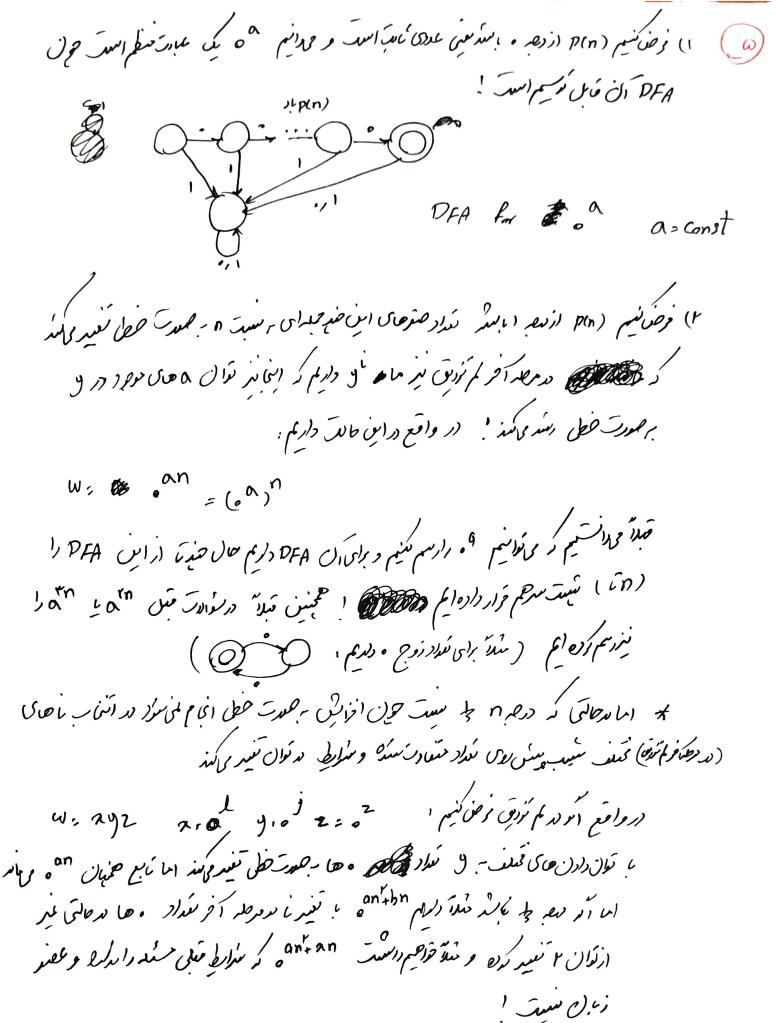
b)

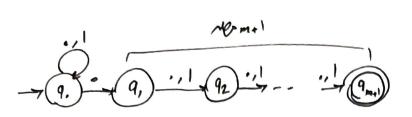
- رسي وفتح رسم تودار ايم سده اسس

c)

19.					
X	q_1				
Α	く	92			
X	X	<	93		
×	B	人	<	94	
X	く	人	C	メ	95







سی NFA رسم منده را بر تندی - DFA کنید لیم .

